

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of claims in the application:

1. (Currently Amended) A method for permitting a programmer to edit a multilanguage document having code segments written in a primary language and one or more code segments written in one or more secondary languages, the method permitting the programmer to perform editing of the multilanguage document from a single primary editor designed to provide advanced editing functionality for the primary language, while also enabling the programmer to utilize advanced editing functionality of one or more secondary editors to edit the one or more secondary languages, and in such a way that the programmer is not required to open or interface with the secondary editors, the method comprising:

presenting to a programmer a multilanguage document in a primary application view of a primary editor designed to provide advanced editing functionality for the primary language of the multilanguage document;

identifying code segments of the multilanguage document that are written in the primary language and identifying at least one other code segment written in a secondary programming language; and

without requiring the programmer to leave the primary application view to open or interface with the secondary editors, enabling the programmer to edit the different code segments of the multilanguage document from within the primary application view by

editing code segments written in the primary language with the primary editor,

sending the at least one other code segment written in secondary programming language to the corresponding secondary editor,

the secondary editor creating a corresponding secondary file to be used to edit the at least one other code segment.

a buffer coordinator recognizing edits made in the primary application view to the at least one other code segment and transmitting the edits to the secondary editor.

editing the at least one other code segment written in secondary programming language through interaction with the corresponding secondary editor,

the buffer coordinator replicating changes from the secondary file to the primary document, and

displaying the other code segment written in secondary programming language and the edits made thereto within the primary application view and within the multilanguage document in which the other code segment is contained.

2. (Cancelled)

3. (Original) A method as recited in claim 2, wherein the secondary editor is specifically configured for editing code written in a language of the received code segment.

4. (Currently Amended) A method as recited in claim 2, wherein the secondary document file is transparent to the user.

5. (Currently Amended) A method as recited in claim 4, wherein the secondary document file is created in a text-only format.

6. (Currently Amended) A method as recited in claim 2, wherein the primary editor modifies the multilanguage document in response to a change made to the secondary document file.

7. (Previously Presented) A method as recited in claim 1, wherein the multilanguage document is modified in response to advanced editing features of the secondary editor that are not inherently enabled by the primary editor.

8. (Previously Presented) A method as recited in claim 7, wherein the advanced editing features include at least one of syntax coloring, statement completion, document formatting, error reporting, and context help.

9. (Currently Amended) A method for permitting a programmer to edit a multilanguage document having code segments written in a primary language and one or more code segments written in one or more secondary languages, the method permitting the programmer to perform editing of the multilanguage document from a single primary editor designed to provide advanced editing functionality for the primary language, while also enabling the programmer to utilize advanced editing functionality of one or more secondary editors to edit the one or more secondary languages, and in such a way that the programmer is not required to open or interface with the secondary editors, the method comprising:

presenting to a programmer a multilanguage document in a primary application view of a primary editor designed to provide advanced editing functionality for the primary language of the multilanguage document;

identifying code segments of the multilanguage document that are written in the primary language and identifying at least one other code segment written in secondary programming language;

identifying whether the at least one other code segment written in a secondary programming language is a complete code segment, and if not, supplementing the at least one other code segment with additional data necessary to create complete source code for the at least one other code segment so that it can be recognized and edited by the secondary editor having advanced editing functionality for the language of the at least one other code segment and having editing functionality not available within the primary editor;

without requiring the programmer to open or interface with the secondary editors, providing the at least one other code segment to the secondary editor having advanced editing functionality for the language for the at least one other code segment and having editing functionality not available within the primary editor, and the secondary editor thereafter creating a secondary file document for editing the at least one other code segment, the secondary file document being invisible to the user in the sense that it is created by the secondary editor without interaction by the programmer outside of the primary editor;

a buffer coordinator recognizing edits made in the primary application view to the at least one other code segment and transmitting the edits to the secondary editor;

~~the primary editor thereafter creating links between the primary application view of the multilanguage document presented in the primary editor, and portions of the secondary document;~~

~~the primary editor replicating edits made by the programmer to the multilanguage document in the primary application view to the secondary document;~~

~~the buffer coordinator replicating changes from the secondary file to the primary document; and~~

the primary editor modifying the primary application view of the multilanguage document to accommodate the advanced editing functionality and the editing functionality not available within the primary editor provided by the secondary editor as to the at least one other code segment in the secondary language.

10. (Original) A method as recited in claim 9, wherein modifying the primary application view includes displaying a menu created by the secondary editor.

11. (Currently Amended) A method as recited in claim 9, wherein modifying the primary application view includes editing the multilanguage file and replicating one or more edits made by the secondary editor to the secondary document file.

12. (Currently Amended) A method as recited in claim 11, wherein the one or more edits made in the secondary document file include edits made in response to functionality provided by the secondary editor that are not inherently available to the primary editor.

13. (Previously Presented) A method as recited in claim 11, wherein the functionality provided by the secondary editor includes at least one of syntax coloring, statement completion, document formatting, error reporting, and context help.

14. (Currently Amended) A method as recited in claim 13, further including, prior to replicating the one or more edits made in the secondary document, an act of determining that the one or more edits made in the secondary document file are not merely a result of replication of the edits made by the primary editor to the multilanguage file in the primary view.

15. (Currently Amended) A method as recited in claim 9, further including, prior to replicating edits made to the multilanguage file in the primary application view to the secondary file, an act of determining that the one or more edits made in the primary application view are not merely a result of replication of the edits made by the secondary editor to the secondary documentfile.

16 – 24 (Cancelled)

25. (Currently Amended) A computer program product comprising one or more physical computer-readable media having computer executable instructions for implementing a method for permitting a programmer to edit a multilanguage document having code segments written in a primary language and one or more code segments written in one or more secondary languages, wherein the method permits the programmer to perform editing of the multilanguage document from a single primary editor designed to provide advanced editing functionality for the primary language, while also enabling the programmer to utilize advanced editing functionality of one or more secondary editors to edit the one or more secondary languages, and in such a way that the programmer is not required to open or interface with the secondary editors, the method being that recited in claim 1, and wherein the method comprises:

presenting to a programmer a multilanguage document in a primary application view of a primary editor designed to provide advanced editing functionality for the primary language of the multilanguage document;

identifying code segments of the multilanguage document that are written in the primary language and identifying at least one other code segment written in a secondary programming language; and

without requiring the programmer to leave the primary application view to open or interface with the secondary editors, enabling the programmer to edit the different code segments of the multilanguage document from within the primary application view by

editing code segments written in the primary language with the primary editor;

sending the at least one other code segment written in secondary programming language to the corresponding secondary editor;

editing the at least one other code segment written in secondary programming language through interaction with the corresponding secondary editor, and

displaying the other code segment written in secondary programming language and the edits made thereto within the primary application view and within the multilanguage document in which the other code segment is contained.

26. (Cancelled)

27. (Original) A computer program product as recited in claim 26, wherein the secondary editor is specifically configured for editing code written in a language of the received code segment.

28. (Currently Amended) A computer program product as recited in claim 26, wherein the secondary document file is transparent to the user.

29. (Currently Amended) A computer program product as recited in claim 26, wherein the primary editor modifies the multilanguage document in response to a change made to the secondary document file.

30. (Previously Presented) A computer program product as recited in claim 25, wherein the multilanguage document is modified in response to advanced editing features of the secondary editor that are not inherently enabled by the primary editor.

31. (Previously Presented) A computer program product as recited in claim 30, wherein the advanced editing features include at least one of syntax coloring, statement completion, document formatting, error reporting, and context help.

32. (Currently Amended) A computer program product comprising one or more physical computer-readable media having computer executable instructions for implementing a method for permitting a programmer to edit a multilanguage document having code segments written in a primary language and one or more code segments written in one or more secondary languages, wherein the method permits the programmer to perform editing of the multilanguage document from a single primary editor designed to provide advanced editing functionality for the primary language, while also enabling the programmer to utilize advanced editing functionality of one or more secondary editors to edit the one or more secondary languages, and in such a way that the programmer is not required to open or interface with the secondary editors, the method being that recited in claim 9, and wherein the method comprises:

presenting to a programmer a multilanguage document in a primary application view of a primary editor designed to provide advanced editing functionality for the primary language of the multilanguage document;

— identifying code segments of the multilanguage document that are written in the primary language and identifying at least one other code segment written in secondary programming language;

— identifying whether the at least one other code segment written in a secondary programming language is a complete code segment, and if not, supplementing the at least one other code segment with additional data necessary to create complete source code for the at least one other code segment so that it can be recognized and edited by the secondary editor having advanced editing functionality for the language of the at least one other code segment and having editing functionality not available within the primary editor;

— without requiring the programmer to open or interface with the secondary editors, providing the at least one other code segment to the secondary editor having advanced editing functionality for the language for the at least one other code segment and having editing functionality not available within the primary editor, and the secondary editor thereafter creating a secondary document for editing the at least one other code segment, the secondary document being invisible to the user in the sense that it is created by the secondary editor without interaction by the programmer outside of the primary editor;

the primary editor thereafter creating links between the primary application view of the multilanguage document presented in the primary editor, and portions of the secondary document;

— the primary editor replicating edits made by the programmer to the multilanguage document in the primary application view to the secondary document; and

the primary editor modifying the primary application view of the multilanguage document to accommodate the advanced editing functionality and the editing functionality not available within the primary editor provided by the secondary editor as to at least one other code segment in the secondary language.

33. (Original) A computer program product as recited in claim 32, wherein modifying the primary application view includes displaying a menu created by the secondary editor.

34. (Currently Amended) A computer program product as recited in claim 32, wherein modifying the primary application view includes editing the multilanguage file to replicate one or more edits made by the secondary editor to the secondary document_file.

35. (Currently Amended) A computer program product as recited in claim 34, wherein the one or more edits made in the secondary document_file include edits made in response to functionality provided by the secondary editor that are not inherently available to the primary editor.

36. (Previously Presented) A computer program product as recited in claim 34, wherein the functionality provided by the secondary editor includes at least one of syntax coloring, statement completion, document formatting, error reporting, and context help.

37. (Currently Amended) A computer program product as recited in claim 32, further including, prior to replicating the one or more edits made in the secondary document file, an act of the buffer coordinator determining that the one or more edits made in the secondary document file were not made merely to replicate the edits made by the primary editor, so as to avoid an infinite loop of edits being made.